## **INTERNATIONAL SEARCH REPORT**

Internation No PCT/IB2004/052628

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01L23/485 H01L21/60									
According to	o International Patent Classification (IPC) or to both national classifica	ation and IPC							
B. FIELDS SEARCHED									
Minimum do IPC 7	parametristic searched (classification system followed by classification $H01L$	on symbols)							
Documenta	tion searched other than minimum documentation to the extent that s	uch documents are included in the fields se	earched						
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)									
EPO-In	ternal, WPI Data, PAJ								
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the rele	Relevant to claim No.							
х	US 2003/178644 A1 (LEE JIN-HYUK E 25 September 2003 (2003-09-25) paragraph '0010! - paragraph '001 figures 1,2	1-5							
X	US 2002/187634 A1 (SARAN MUKUL ET 12 December 2002 (2002-12-12) paragraph '0031! - paragraph '003 figures 1,3,6	1-5							
X	EP 0 875 934 A (TEXAS INSTRUMENTS INCORPORATED) 4 November 1998 (19 claims 1,7,8; figures 1,6,7	1-5							
Further documents are listed in the continuation of box C.  X Patent family members are listed in annex.									
° Special ca	° Special categories of cited documents:  "T" later document published after the international filing date								
"A" document defining the general state of the art which is not cited to understand the principle or theory, underlying the									
considered to be of particular relevance invention  "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention									
filing date  Cannot be considered novel or cannot be considered to  "L" document which may throw doubts on priority claim(s) or  Involve an inventive step when the document is taken alone									
which	which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the								
"O" docum	ent referring to an oral disclosure, use, exhibition or means	ore other such docu- us to a person skilled							
"P" docum	ent published prior to the international filing date but	family							
Date of the actual completion of the international search  Date of mailing of the international search report									
14 June 2005		23/06/2005							
Name and	mailing address of the ISA	Authorized officer							
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Cortes Rosa, Joao							

## INTERNATIONAL SEARCH REPORT

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International Application No PCT/IB2004/052628

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